

WHAT IS CLAIMED IS:

1. Isolated nucleic acid comprising DNA having at least about 800 nucleotides and at least about a 70% sequence identity to (a) a DNA molecule encoding a human clone 65 polypeptide comprising the sequence of amino acids 1 to 258 of Figures 5A and 5B (SEQ ID NO:3), or (b) a complement of the DNA molecule of (a).

2. The nucleic acid of claim 1 having at least one clone 65 biological activity.

3. Isolated nucleic acid comprising DNA having at least about 700 nucleotides and at least about a 95% sequence identity to (a) a DNA molecule encoding a human clone 65 polypeptide comprising the sequence of amino acids 1 to 258 of Figures 5A and 5B (SEQ ID NO:3), or (b) a complement of the DNA molecule of (a).

4. The nucleic acid of claim 3 comprising DNA encoding a human clone 65 polypeptide having amino acid residues 1 to 258 of Figures 5A and 5B (SEQ ID NO:3), or a complement thereof.

5. Isolated nucleic acid comprising DNA having at least about 800 nucleotides and at least about a 70% sequence identity to (a) a DNA molecule encoding a mouse clone 65 polypeptide comprising the sequence of amino acids 1 to 261 of Figures 1A and 1B (SEQ ID NO:6), or (b) a complement of the DNA molecule of (a).

6. The nucleic acid of claim 5 comprising DNA having at least about a 85% sequence identity to (a) a DNA molecule encoding a mouse clone 65 polypeptide comprising the sequence of amino acids 1 to 261 of Figures 1A and 1B (SEQ ID NO:6), or (b) a complement of the DNA molecule of (a).

7. The nucleic acid of claim 5 comprising DNA encoding a mouse clone 65 polypeptide having amino acid residues 1 to 261 of Figures 1A and 1B (SEQ ID NO:6), or a complement thereof.

8. Isolated nucleic acid comprising DNA having at least about 800 nucleotides and at least about a 70% sequence identity to (a) a DNA molecule encoding the same full-length polypeptide encoded by the human clone 65 polypeptide cDNA in ATCC Deposit No. 209536 (pRK5E.h.WIG-3.65.4A), or (b) a complement of the DNA

molecule of (a).

9. Isolated nucleic acid comprising SEQ ID NO:11, 12, 13, 14, 15, 16, 17, 18, or 19.

10. A vector comprising the nucleic acid of claim 1.

11. A host cell comprising the vector of claim 10.

12. A process for producing a clone 65 polypeptide comprising culturing the host cell of claim 11 under conditions suitable for expression of the clone 65 polypeptide and recovering the clone 65 polypeptide from the cell culture.

13. Isolated clone 65 polypeptide encoded by the nucleic acid of claim 1.

14. The polypeptide of claim 13 that is human clone 65 or mouse clone 65.

15. Isolated clone 65 polypeptide encoded by a nucleic acid of claim 9.

16. A chimeric molecule comprising a clone 65 polypeptide fused to a heterologous amino acid sequence.

17. The chimeric molecule of claim 16 wherein said heterologous amino acid sequence is an epitope tag sequence or an Fc region of an immunoglobulin.

18. An antibody which specifically binds to a clone 65 polypeptide.

19. The antibody of claim 18 wherein said antibody is a monoclonal antibody.

20. Isolated nucleic acid having at least about 800 nucleotides and produced by hybridizing a test DNA molecule under stringent conditions with (a) a DNA molecule encoding a human clone 65 polypeptide comprising the sequence of amino acids 1 to 258 of Figures 5A and 5B (SEQ ID NO:3), or (b) a complement of the DNA molecule of (a), and, if the test DNA molecule has at least about a 70% sequence identity to (a) or (b), isolating the test DNA molecule.

21. A polypeptide produced by (i) hybridizing a test DNA molecule under stringent

conditions with (a) a DNA molecule encoding a human clone 65 polypeptide comprising the sequence of amino acids 1 to 258 of Figures 5A and 5B (SEQ ID NO:3), or (b) a complement of the DNA molecule of (a), and if the test DNA molecule has at least about a 70% sequence identity to (a) or (b), (ii) culturing a host cell comprising the test DNA molecule under conditions suitable for expression of the polypeptide, and (iii) recovering the polypeptide from the cell culture.

22. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 500 nucleotides and having at least about a 97% sequence identity to (a) a DNA molecule comprising the sequence of nucleotides 1 to 2822 of Figure 2 (SEQ ID NO:7), or (b) a complement of the DNA molecule of (a).

23. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 700 nucleotides and having at least about a 70% sequence identity to (a) a DNA molecule comprising the sequence of nucleotides 1 to 727 of Figure 3 (SEQ ID NO:8), or (b) a complement of the DNA molecule of (a).

24. The nucleic acid of claim 23 having at least about a 95% sequence identity to (a) or (b).

25. The nucleic acid of claim 23 having about 100% sequence identity to (a) or (b).

26. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 700 nucleotides and having at least 75% sequence identity to (a) a DNA molecule comprising the sequence of nucleotides 1 to 2526 of Figures 4A and 4B (SEQ ID NO:9), or (b) a complement of the DNA molecule of (a).

27. The nucleic acid of claim 26 having at least about 90% sequence identity to (a) or (b).

28. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 500 nucleotides and having at least about a 97% sequence identity to (a) a DNA molecule comprising the sequence of nucleotides 1 to 2822 of Figure 2 (SEQ ID NO:7), or (b) a complement of the DNA molecule of (a) and comprising DNA having at least about 700 nucleotides and having at least about a 70% sequence

identity to (c) a DNA molecule comprising the sequence of nucleotides 1 to 727 of Figure 3 (SEQ ID NO:8), or (d) a complement of the DNA molecule of (c).

29. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 500 nucleotides and having at least about a 97% sequence identity to (a) a DNA molecule comprising the sequence of nucleotides 1 to 2822 of Figure 2 (SEQ ID NO:7), or (b) a complement of the DNA molecule of (a) and comprising DNA having at least about 700 nucleotides and having at least a 75% sequence identity to (c) a DNA molecule comprising the sequence of nucleotides 1 to 2526 of Figures 4A and 4B (SEQ ID NO:9), or (d) a complement of the DNA molecule of (c).

30. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 700 nucleotides and having at least about a 70% sequence identity to (a) a DNA molecule comprising the sequence of nucleotides 1 to 727 of Figure 3 (SEQ ID NO:8), or (b) a complement of the DNA molecule of (a) and comprising DNA having at least about 700 nucleotides and having at least a 75% sequence identity to (c) a DNA molecule comprising the sequence of nucleotides 1 to 2526 of Figures 4A and 4B (SEQ ID NO:9), or (d) a complement of the DNA molecule of (c).

31. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 500 nucleotides and having at least about a 97% sequence identity to (a) a DNA molecule comprising the sequence of nucleotides 1 to 2822 of Figure 2 (SEQ ID NO:7), or (b) a complement of the DNA molecule of (a) and comprising DNA having at least about 700 nucleotides and having at least a 75% sequence identity to (c) a DNA molecule comprising the sequence of nucleotides 1 to 2526 of Figures 4A and 4B (SEQ ID NO:9), or (d) a complement of the DNA molecule of (c) and comprising DNA having at least about 700 nucleotides and having at least about a 70% sequence identity to (e) a DNA molecule comprising the sequence of nucleotides 1-727 of Figure 3 (SEQ ID NO:8), or (f) a complement of the DNA molecule of (e).

32. Isolated nucleic acid encoding mouse clone 320 comprising DNA having at least about 500 nucleotides and having at least about a 95% sequence identity to (a) a DNA molecule encoding the same polypeptide encoded by the mouse clone 320 polypeptide cDNA in ATCC Deposit No. 209534 (PRK5E.m.WIG-4.320.9), or (b) a complement of the DNA molecule of (a).

33. The nucleic acid of claim 32 that is about 3 kilobases in length.
34. The nucleic acid of claim 32 comprising DNA that encodes the same polypeptide encoded by the mouse clone 320 polypeptide cDNA in ATCC Deposit No. 209534 (pRK5E.m.WIG-4.320.9).
35. Isolated polypeptide encoded by the nucleic acid of claim 22.
36. Isolated nucleic acid having at least about 500 nucleotides and produced by hybridizing a test DNA molecule under stringent conditions with (a) a DNA molecule encoding the same polypeptide encoded by the mouse clone 320 polypeptide cDNA in ATCC Deposit No. 209534 (pRK5E.m.WIG-4.320.9), or (b) a complement of the DNA molecule of (a), and, if the test DNA molecule has at least about a 95% sequence identity to (a) or (b), isolating the test DNA molecule.
37. A polypeptide produced by (i) hybridizing a test DNA molecule under stringent conditions with (a) a DNA molecule encoding the same polypeptide encoded by the mouse clone 320 polypeptide cDNA in ATCC Deposit No. 209534 (pRK5E.m.WIG-4.320.9), or (b) a complement of the DNA molecule of (a), and if the test DNA molecule has at least about a 95% sequence identity to (a) or (b), (ii) culturing a host cell comprising the test DNA molecule under conditions suitable for expression of the polypeptide, and (iii) recovering the polypeptide from the cell culture.
38. A composition comprising the polypeptide of claim 13 and a carrier therefor.
39. A composition comprising an antagonist to the polypeptide of claim 13 and a carrier therefor.
40. A composition comprising the polypeptide of claim 15 and a carrier therefor.
41. A composition comprising an antagonist to the polypeptide of claim 15 and a carrier therefor.
42. A composition comprising the polypeptide of claim 35 and a carrier therefor.

43. A composition comprising an antagonist to the polypeptide of claim 35 and a carrier therefor.